

## ABSTRACT

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This invention provides novel optical interconnection apparatuses excellent in heat resistance and freeze resistance, each of which can hold in place and protect routed optical fibers against external force and permits easy optical inter-connections without a loss in the intactness of a routing pattern of the routed optical fibers. An optical inter-connection apparatus according to this invention has plural optical fibers 4, which are routed in a two-dimensional plane and are provided at opposite ends thereof with end portions 5 adapted to permit optical interconnections thereto, and at least one protective resin layer 2 by which the optical fibers are held in place. The protective resin layer 2 is formed from a silicone-base material curable through a condensation reaction with liberation of an oxime or liberation of an alcohol or from a silicone-base material, which is curable by crosslinking through a hydrosilation reaction, and an adhesion promoter, and is joined with a base 1 or another protective resin layer via an adhesive layer 3. The adhesive layer comprises an acrylic pressure-sensitive adhesive. As an alternative, the adhesive layer may comprise a silicone-base pressure-sensitive adhesive which is curable by crosslinking through a hydrosilation reaction.